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AMENDMENTS TO THE CLAIMS

Please amend claim 1.

The following listing of claims replaces all versions, and listings, of claims in this application.

Listing of Claims:

1. (Currently Amended) A portable electronic device comprising an electrochemical cell, said cell comprising a positive electrode, a negative electrode and an electrolyte,

wherein said positive electrode comprises a mesoporous structure having a periodic arrangement of substantially uniformly sized pores with a diameter in the order of 10^{-9} to 10^{-8} m₂

wherein said mesoporous structure comprises a metal oxide, hydroxide or oxy-hydroxide is selected from the group consisting of gold oxide, palladium oxide, nickel oxide (NiO), nickel hydroxide (Ni(OH)₂), nickel oxy-hydroxide (NiOOH) or and ruthenium oxide, and

wherein said negative electrode comprises a material that is carbon or palladium.

- 2. (Canceled)
- 3. (Previously Presented) A portable electronic device according to claim 1, wherein the mesoporous structure of the positive electrode additionally comprises a metal, wherein said metal oxide, metal hydroxide or metal oxy-hydroxide forms a surface layer over said metal and extends over the pore surfaces.
- 4. (Previously Presented) A portable electronic device according to claim 1, wherein the mesoporous structure of the positive electrode comprises a metal that is nickel or nickel alloys.
- 5-6. (Canceled)
- 7. (Previously Presented) A portable electronic device according to claim 1, wherein the mesoporous structure has a pore number density of about $4x10^{11}$ to $3x10^{13}$ pores per cm².

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8. (Previously Presented) A portable electronic device according to claim 1, wherein at least 85 % of the pores in said mesoporous structure have pore diameters within 30 % of the average pore diameter.

- 9. (Previously Presented) A portable electronic device according to claim 1, wherein the mesoporous structure has a hexagonal arrangement of pores that are continuous through the thickness of the electrode.
- 10. (Previously Presented) A portable electronic device according to claim 9, wherein the hexagonal arrangement of pores has a pore periodicity in the range of 5 to 9 nm.
- 11. (Previously Presented) A portable electronic device according to claim 1, wherein the negative electrode comprises a mesoporous structure having a periodic arrangement of substantially uniformly sized pores with a diameter in the order of 10^{-9} to 10^{-8} m.
- 12. (Previously Presented) The portable electronic device of claim 1, wherein said mesoporous structure is a film having a thickness in the range of about 0.5 to about 5 micrometers.

13-14. (Canceled)

- 15. (Previously Presented) The portable electronic device of claim 1, wherein said mesoporous structure comprises nickel and a nickel oxide, a nickel hydroxide or a nickel oxy-hydroxide that is NiO, Ni(OH)₂ and NiOOH, said nickel oxide, nickel hydroxide, or nickel oxy-hydroxide forming a surface layer over said nickel and extending over the pore surfaces, and wherein said negative electrode has a mesoporous structure comprised of carbon or palladium.
- 16. (Previously Presented) The portable electronic device of claim 15, wherein said negative electrode comprises nanoparticulate carbon.
- 17. (Previously Presented) The portable electronic device of claim 1, wherein said cell is constructed to function as a battery, as a supercapacitor or a combination thereof.
- 18. (Previously Presented) A portable electronic device according to claim 6, wherein the mesoporous structure has a pore diameter in the range of about 2.0-8.0 nm.

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19. (Previously Presented) A portable electronic device according to claim 7, wherein the mesoporous structure has a pore number density of 1×10^{12} to 1×10^{13} pores per cm².

- 20. (Previously Presented) The portable electronic device of claim 8, wherein at least 85 % of the pores in said mesoporous structure have pore diameters to within 10 % of the average pore diameter.
- 21. (Previously Presented) The portable electronic device of claim 8, wherein at least 85 % of the pores in said mesoporous structure have pore diameters to within 5 % of the average pore diameter.
- 22. (Previously Presented) The portable electronic device of claim 4, wherein said Nickel alloys are alloys with a transition metal, nickel/cobalt alloys, iron/nickel alloys, cobalt, platinum, palladium or ruthenium.